

# CMS Data Guardian Program



*NIST FISSEA Conference*

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Incident Management Team*

# Introduction



**'Data Guardians' Now On Watch After Hack at Medicare Agency**

By Aliya Sternstein

May 23, 2016

# Data Guardian as Privacy Steward

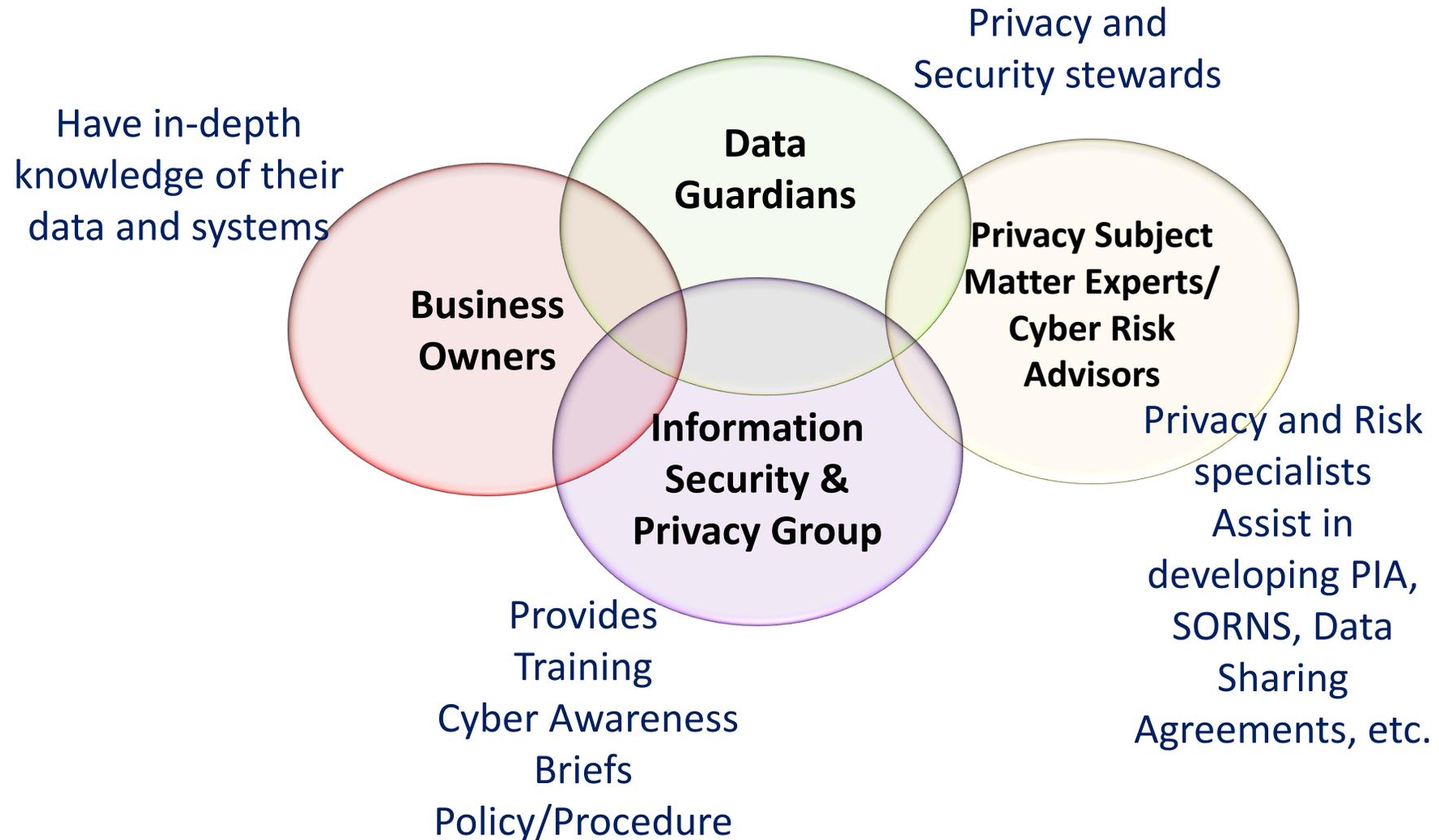


<https://www.dreamstime.com>

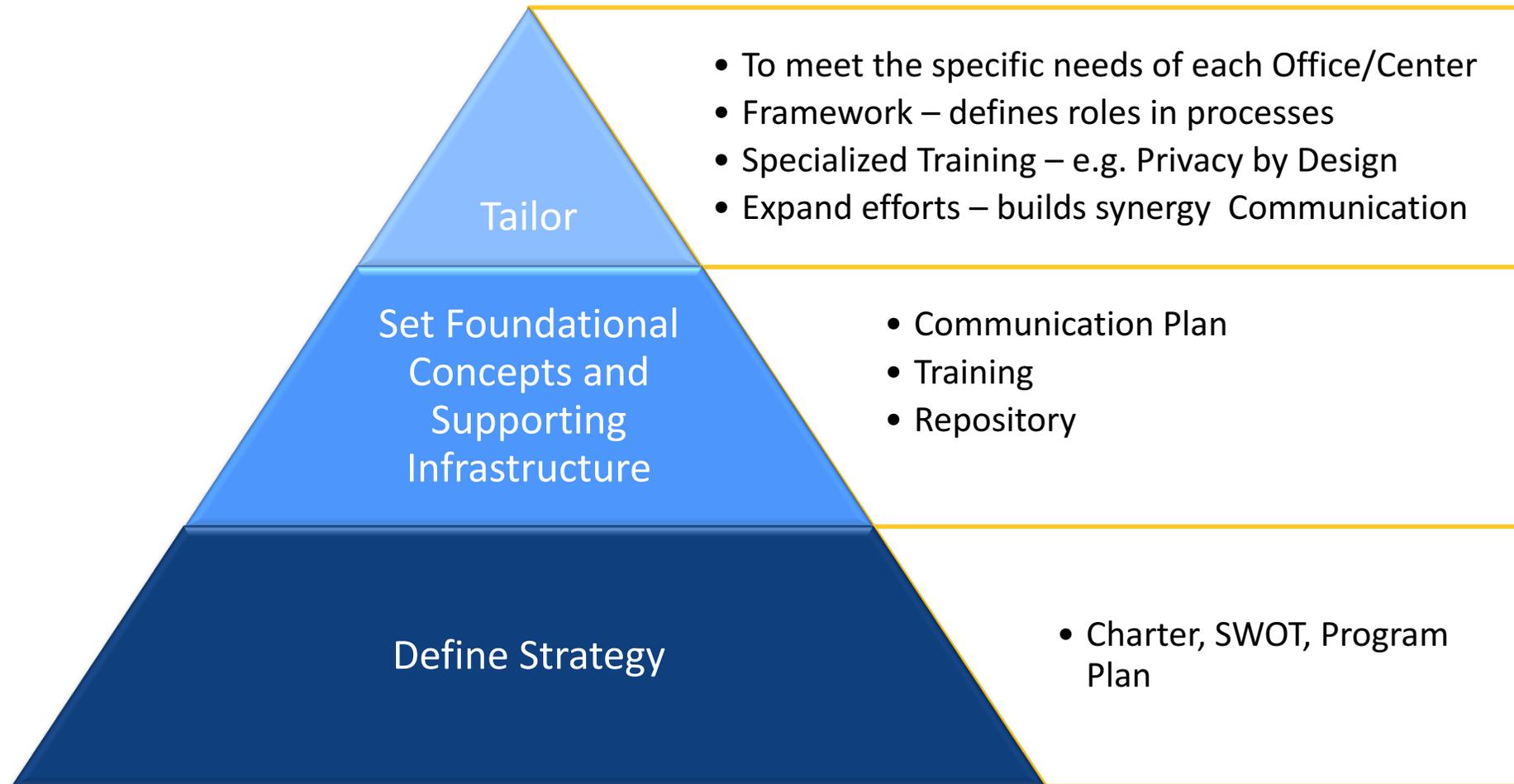
dreamstime.com

Data Guardian are responsible for disseminating the message that fortifies the culture and encourages staff to *stop, think,* and *ask* before taking a risk that could potentially compromise the IT systems or data of the organization.

# Stakeholder Dependencies



# Building the Data Guardian Program



# Data Guardian Meeting Agenda

What's happening  
internally/externally in  
the cyber world  
&  
what Data Guardians  
need to know and act on



## Data Guardian Workgroup Meeting Agenda

### Cyber Awareness

- Phishing Exercise updates
- Joint Analysis Report (JAR) – Russian Hacking
- Policy/Procedure
  - Summary and implications of OMB guidance A-130
  - HHS Security and Privacy Language for Information and Information Technology Acquisitions
- Training Opportunities
- Round Robin

# Phishing Program Overview

- Define Phishing
- Identify Phishing Scams
- Develop Scenarios and Run Exercises
- Review Statistics
- Communicate Results
- Develop Mitigation Tactics
- Compile Lessons Learned from Phishing results



# Phishing Exercise Example

## *Valentines Day*

**From:** eCard Delivery <do\_not\_reply@ecardalert.com>  
**Subject:** Happy Valentine's Day! See who sent you an e-card...



A secret admirer wished you a Happy Valentine's Day!

Some of you may have heard about our employee greeting cards that can be used to acknowledge fellow employees.

Click on the link below to view yours.

**[Your Card is Waiting](#)**

If you are having trouble viewing the e-card please click [here](#).

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Would you like to send an e-card? Visit our [site](#).  
*Making someone's day, one e-card at a time...*

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This email may contain confidential and privileged information for the sole use of the intended recipient. If you are not the intended recipient, please contact the sender and delete all copies. Any review or distribution by others is strictly prohibited. Thank you.

# Provide a Phishing Exercise with Follow-on Training

**From:** eCard Delivery <do\_not\_reply@ecardalert.com>  
**Subject:** Happy Valentine's Day! See who sent you an e-card...

**Caution!**  
Unsolicited e-mail  
Unknown sender

**Red Flags!**

- All three embedded links redirect to an unknown site.
- Content is generic, not from known friend/user.

A secret admirer wished you, CMS User a Happy Valentine's Day!

Some of you may have heard about our employee greeting cards that can be used to acknowledge fellow employees.

Click on the link below to view yours.

**Your Card is Waiting**

If you are having trouble viewing the e-card please click [here](#).

Would you like to send an e-card? Visit our [site](#).  
Making someone's day, one e-card at a time...

This email may contain confidential and privileged information for the sole use of the intended recipient. If you are not the intended recipient, please contact the sender and delete all copies. Any review or distribution by others is strictly prohibited. Thank you.

<https://login.phishme.com/scenario/76f6fab9-ed01-4442-9b9f-f34abbd88898/education/review>

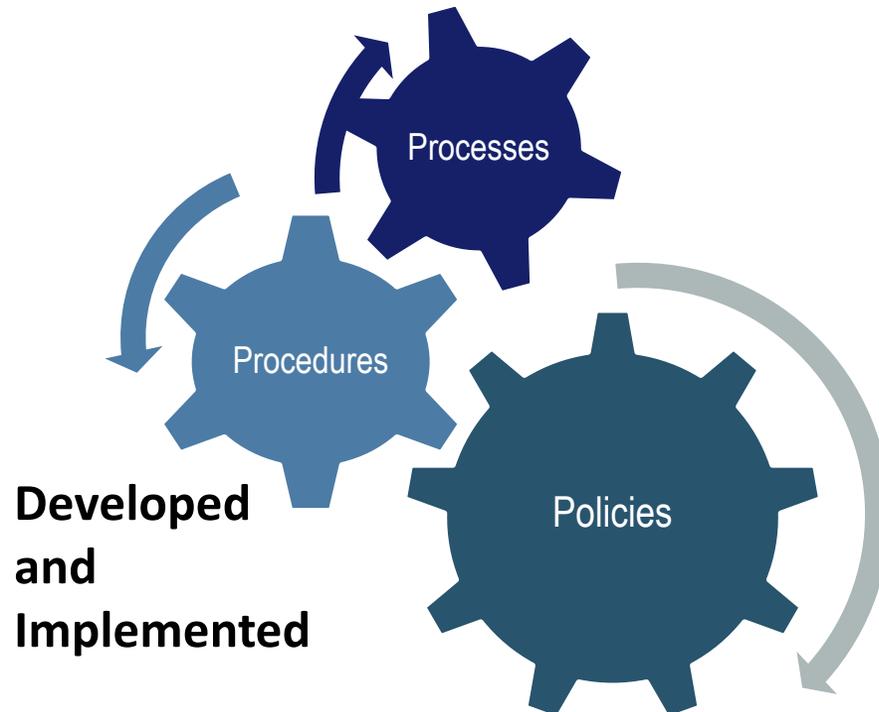
# Mitigation

“SPAM Button” – to make it easy to report & act upon

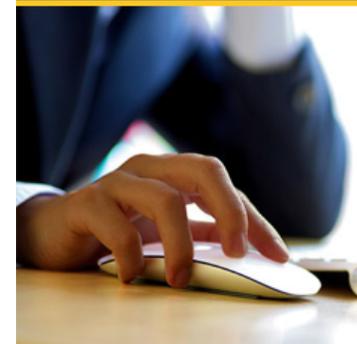


Forward the email to HHS Spam ([spam@hhs.gov](mailto:spam@hhs.gov)) mailbox.

Acquired & Implemented Toolset



Proceed with Caution



*Information Security and Privacy Group (ISPG)*

*Phishing Training and Awareness*



Specialized training for repeat clickers

# Phishing Exercises Program Outcomes



## Results:

- Improved ability by staff to identify a phishing scam
- Improved response by Security Operations Team
- Ability to focus mitigation and training

# Lessons Learned

- Create a “true” baseline
- Focus on problems
  - Identification - ‘phishing clues’
  - Reporting
- Variety keeps the attention
- Communicate results of the exercises
- Follow every campaign with training



# Incident Response Preparedness

## Conduct Tabletop Exercises to:



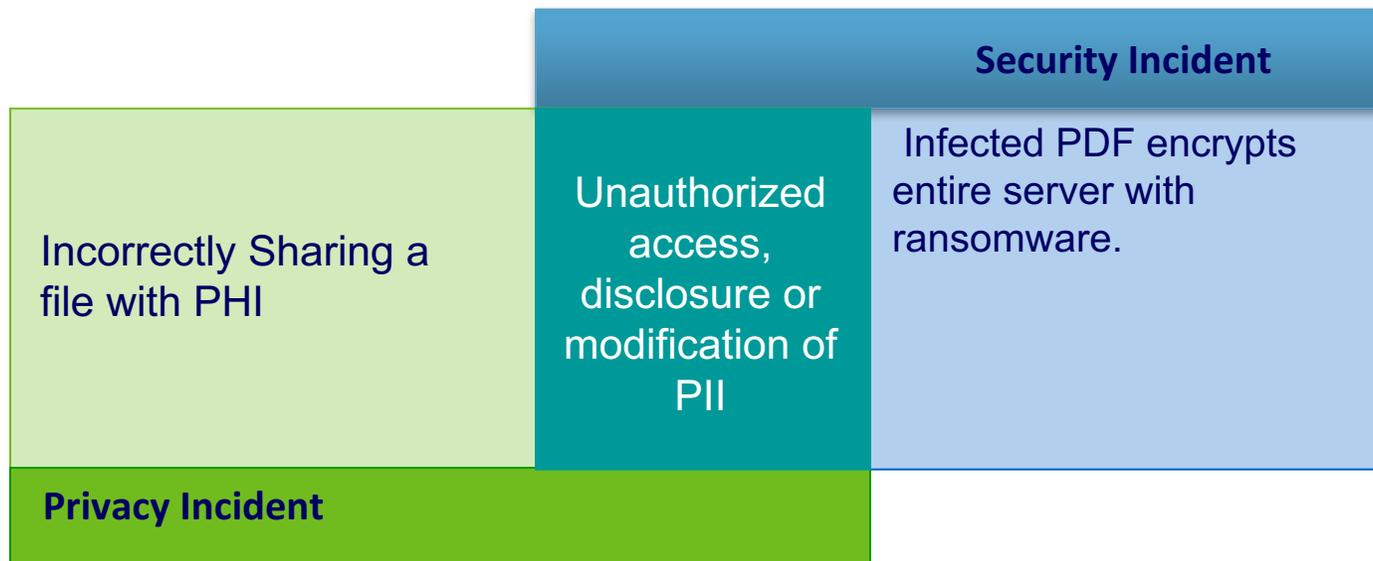
Downloaded from: <http://www.eci.com>

- Identify & Practice procedures
- Give input to enhance privacy/security incident response capabilities
- Identify preventative corrective actions that could be implemented

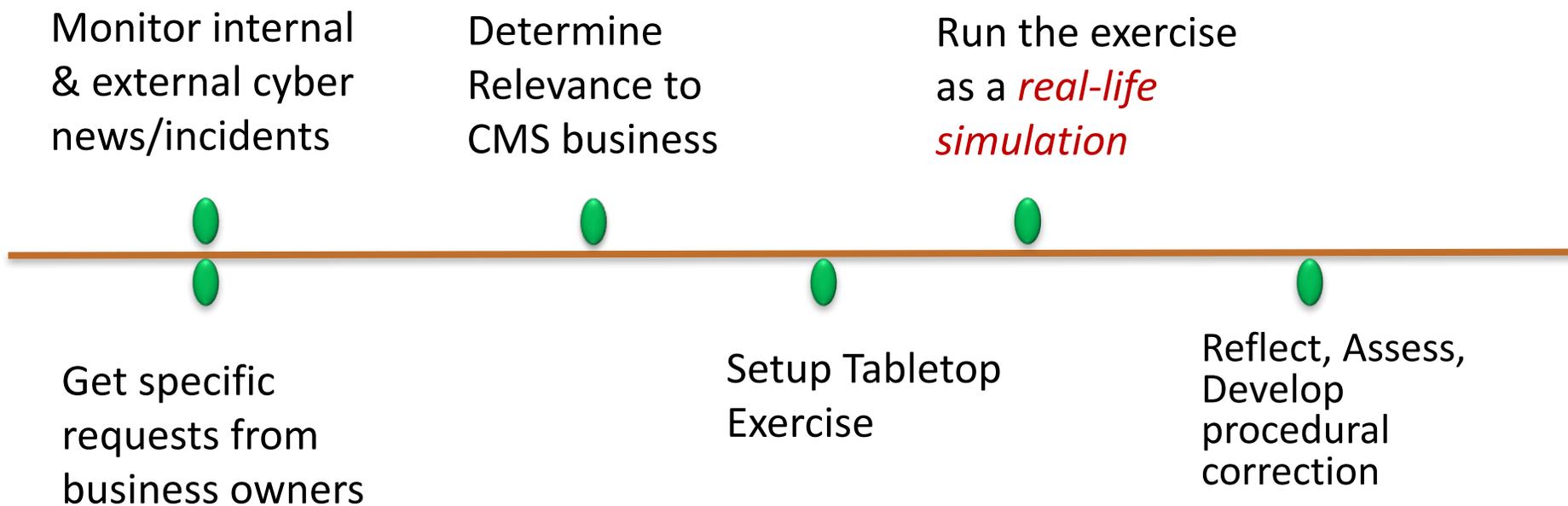
*New OMB guidance recently issued emphasizes Incident Response*

# Develop Scenarios that Ensure Coverage of all Types of Incidents

**Not all *security incidents* are *privacy incidents*, and conversely, not all *privacy incidents* are *security incidents*.**



# Process



# Tabletop Exercises Lessons Learned

## **FOCUS ON THE POSITIVE**

- Solicit participant feedback on how the tabletop exercise was crafted and run – it provides valuable insight
- The results of the exercise should be analyzed on a team-by-team basis; this provides information on where gaps exist
- Use positivity and focus on insight gathered
- Build relationships and teamwork mindset

# Data Guardian Program Summary

- Needs to be Business Driven focused
  - Leadership
- Data Guardian Program for communication and coordination of technology, compliance & business
- Phishing Program to anticipate threats
- Tabletop Exercises to minimize harm and facilitate recovery

# Questions?

